

## Senate Resolution 109 - Introduced

### SENATE RESOLUTION NO. 109

BY QUIRMBACH, BACON, ANDERSON, BARTZ, BEALL, BEHN,  
BERTRAND, BLACK, BOETTGER, BOLKCOM, BOWMAN,  
CHELGREN, COURTNEY, DANIELSON, DEARDEN, DIX,  
DOTZLER, DVORSKY, ERNST, FEENSTRA, FRAISE, GREINER,  
GRONSTAL, HAHN, HAMERLINCK, HANCOCK, HATCH,  
HOGG, HORN, HOUSER, JOCHUM, JOHNSON, KAPUCIAN,  
KETTERING, KIBBIE, MATHIS, McCOY, McKINLEY, RAGAN,  
RIELLY, SCHOENJAHN, SENG, SEYMOUR, SMITH, SODDERS,  
SORENSEN, WARD, WHITVER, WILHELM, and ZAUN

1 A Resolution recognizing Dr. Dan Shechtman of the Iowa  
2 State University College of Engineering, the United  
3 States Department of Energy's Ames Laboratory, and  
4 Technion-Israel Institute of Technology on his  
5 receipt of the 2011 Nobel Prize in Chemistry.  
6 WHEREAS, Dr. Shechtman serves as a professor  
7 of materials science and engineering at Iowa State  
8 University; research scientist at the United  
9 States Department of Energy's Ames Laboratory; and  
10 distinguished professor at Technion-Israel Institute of  
11 Technology in Haifa, Israel; and  
12 WHEREAS, on the morning of April 8, 1982, Dr.  
13 Shechtman discovered the existence of quasicrystals, a  
14 new atomic structure for solid materials; and  
15 WHEREAS, this structure was previously thought  
16 to be impossible by the scientific and engineering  
17 community; and  
18 WHEREAS, Dr. Shechtman endured significant  
19 skepticism and criticism from professional peers but  
20 stood firm in his convictions and in the accuracy and

1 import of this discovery; and

2 WHEREAS, Dr. Shechtman's findings were independently  
3 confirmed by other researchers around the world,  
4 including scientists at the United States Department of  
5 Energy's Ames Laboratory and Iowa State University; and

6 WHEREAS, the discovery of quasicrystals resulted in  
7 textbooks being rewritten; and

8 WHEREAS, the discovery of quasicrystals has  
9 increased knowledge and the fundamental understanding  
10 of solid materials; and

11 WHEREAS, in 2004, Dr. Shechtman joined Iowa State  
12 University as a professor of materials science and  
13 engineering in the College of Engineering and the  
14 United States Department of Energy's Ames Laboratory,  
15 as a research scientist; and

16 WHEREAS, he continues to teach students and conduct  
17 research in Iowa; and

18 WHEREAS, in recognition of his groundbreaking  
19 scientific achievements, the Royal Swedish Academy of  
20 Sciences awarded Dr. Shechtman the 2011 Nobel Prize in  
21 Chemistry; NOW THEREFORE,

22 BE IT RESOLVED BY THE SENATE, That the Senate honors  
23 Dr. Dan Shechtman for his groundbreaking discovery of  
24 quasicrystals, his perseverance, and his contributions  
25 to teaching and research at Iowa State University and  
26 the Ames Laboratory, which culminated in his receipt of  
27 the 2011 Nobel Prize in Chemistry.